Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1-14. (Cancelled)

15. (Currently amended) A non-transitory computer-readable recording medium storing thereon an index table and a plurality of operation mode objects, wherein

the index table is a file that shows a plurality of titles in correspondence with the plurality of operation mode objects, at least one of the operation modes being a first operation mode object that is for use in a movie mode, and at least another one of the operation mode objects being a second operation mode object that is for use in a virtual machine,

the first operation mode object is <u>stored in a file</u>, that includes a navigation command that shows a control procedure, and is loaded by a playback apparatus when the playback apparatus is in a first operation mode,

the second operation mode object is <u>stored in</u> a file, <u>that</u>-includes cache management information, <u>and</u> is loaded by the playback apparatus when the playback apparatus is in a second operation mode, <u>and defines run control of an application in accordance with a selection of a current title corresponding to the second operation mode object, the run control being a control of reading a class file included in a Java archive file composing an application having a life cycle corresponding to the current title onto a heap memory of the virtual machine from a cache when the Java archive file composing the application has been preloaded to the cache, and</u>

the cache management information shows, of Java archive files that compose applications,

which <u>Java archive</u> file is to be read to [[a]]the cache, before audio-visual playback of the <u>current</u> title <u>following the selection of the current title corresponding to the second operation mode</u> object when said title becomes a current title, the file to be read into the cache as shown by the cache management information is a Java archive file which includes a class file with regard to an <u>Xlet program</u>.

16. (Currently amended) A playback apparatus that performs playback of a title recorded on a recording medium, and execution of an application, the playback apparatus comprising:

a module manager operable to select, based on an index table, a title to become a current title from among a plurality of titles; [[and]]

a module operable to execute the application[[,]]; and

a playback unit operable to execute audio-visual playback in accordance with the current title,

wherein

the recording medium stores thereon an index table, and a plurality of operation mode objects,

the index table shows a plurality of titles in correspondence with the plurality of operation mode objects, at least one of the operation modes being a first operation mode object that is for use in a movie mode, and at least another one of the operation mode objects being a second operation mode object that is for use in a virtual machine,

the first operation mode object is stored in a file and includes a navigation command that shows a control procedure,

the second operation mode object is stored in a file, includes cache management

operation, is loaded by the playback apparatus when the playback apparatus is in a second operation mode, and defines run control of an application in accordance with a selection of a current title corresponding to the second operation mode object, the run control being a control of reading a class file included in a Java archive file composing an application having a life cycle corresponding to the current title onto a heap memory of the virtual machine from a cache when the Java archive file composing the application has been preloaded to the cache.

the cache management information shows, of <u>Java archive</u> files that compose applications, which <u>Java archive</u> file is to be read to [[a]]the cache, before audio-visual playback of the <u>current</u> title <u>following the selection of the current title</u>corresponding to the second operation mode object when said title becomes a current title, the file to be read into the cache as shown by the cache management information is a Java archive file which includes a class file with regard to an Xlet program,

archive file shown in the cache management information in the operation mode object corresponding to the current title, before audio-visual playback of said the current title commences, and

the module and the module manager are each configured from hardware including a processor and a memory, and a program stored in the memory.

17. (Cancelled)

18. (Currently amended) A playback method that performs playback of a title recorded on a recording medium, and execution of an application, the playback method comprising:

a manager step of selecting, based on an index table, a title to become a current title from among a plurality of titles; and

a module step of executing the application[[,]]; and

a playback step of executing audio-visual playback in accordance with the current title, wherein

the recording medium stores thereon an index table and a plurality of operation mode objects,

the index table shows a plurality of titles in correspondence with the plurality of operation mode objects, at least one of the operation modes being a first operation mode object that is for use in a movie mode, and at least another one of the operation mode objects being a second operation mode object that is for use in a virtual machine,

the first operation mode object is stored in a file and includes a navigation command that shows a control procedure,

the second operation mode object is stored in a file, includes cache management information, is loaded by the playback apparatus when the playback apparatus is in a second operation mode, and defines run control of an application in accordance with a selection of a current title corresponding to the second operation mode object, the run control being a control of reading a class file included in a Java archive file composing an application having a life cycle corresponding to the current title onto a heap memory of the virtual machine from a cache when the Java archive file composing the application has been preloaded to the cache,

the cache management information shows, of <u>Java archive</u> files that compose applications, which <u>Java archive</u> file is to be read to [[a]]the cache, before audio-visual playback of the <u>current</u> title <u>following the selection of the current title corresponding to the second operation mode</u>

object when said title becomes a current title, the file to be read into the cache as shown by the cache management information is a Java archive file which includes a class file with regard to an Xlet program,

the module step, when a selection of the current title is made, reads to the cache the <u>Java archive</u> file shown in the cache management information in the operation mode object corresponding to the current title, before audio-visual playback of <u>saidthe current</u> title commences.